

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-36 (Cancelled)

Claim 37 (Currently Amended): A process for the manufacture of polymer coated composite substrate, said process ~~comprising~~ consisting essentially of:

providing a compressible mat, wherein the compressible mat comprises at least one of fibers and particles in a resin binder composition;

applying on a surface of the compressible mat a chemically crosslinkable primer coating composition, wherein the chemically crosslinkable composition forms a chemically crosslinked polymer matrix when, or as, the composition is being applied to the compressible mat;

applying on the crosslinked polymer matrix a top coat composition comprising a thermoplastic or a thermosetting polymer latex composition to form a top coat layer; and

compressing and heating the crosslinked polymer matrix, the top coat layer, and the compressible mat to form the polymer coated composite substrate.

Claim 38 (Original): The process of claim 37 wherein the compressible mat further comprises a sheet of paper which is glued to the surface of the mat.

Claim 39 (Previously presented): The process of claim 38 wherein the crosslinked polymer matrix is formed on the paper.

Claim 40 (Cancelled)

Claim 41 (Previously presented): The process of claim 37 wherein the chemically crosslinkable composition is ionically crosslinked.

Claim 42 (Previously presented): The process of claim 37 wherein the chemically crosslinkable composition is covalently crosslinked.

Claim 43 (Previously presented): The process of claim 41 wherein the chemically crosslinkable composition comprises a thermosetting polymer.

Claim 44 (Currently Amended): A process for the manufacture of polymer coated composite substrate, said process ~~comprising~~ consisting essentially of:

providing a compressible mat comprising at least one of fibers and particles and a resin binder composition;

forming a laminate comprising:

(1) a layer of a primer coating composition comprising a crosslinkable polymer, and

(2) a layer of a top coat composition comprising a thermoplastic or a thermosetting polymer latex composition;

contacting the layer of the primer coating composition with a surface of the compressible mat;

compressing the compressible mat and the laminate between heated metal surfaces in a press to form a polymer coated substrate; and

releasing the polymer coated substrate from the press.

Claim 45 (Original): The process of claim 44 wherein the compressible mat further comprises a sheet of paper which is glued to the surface of the mat.

Claim 46 (Previously presented): The process of claim 45 wherein the layer of the primer coating forms a crosslinked polymer matrix on the paper.

Claim 47 (Cancelled)

Claim 48 (Previously presented): The process of claim 44 wherein the crosslinkable composition has thermosetting functionality.

Claim 49 (Cancelled)

Claim 50 (Previously presented): The process of claim 37, further comprising applying a release coat composition on the top coat composition.

Claim 51 (Previously presented): The process of claim 37, wherein the chemically crosslinkable composition has a solids content from about 30% to about 80% by weight.

Claim 52 (Previously presented): The process of claim 37, wherein the chemically crosslinkable composition has a solids content from about 20% to about 70% by weight.

Claim 53 (Cancelled)

Claim 54 (Previously presented): The process of claim 44, further comprising applying a release coat composition on the top coat composition.

Claim 55-66 (Cancelled)